

ABSTRACT

A potentiometric sensor for wellbore applications having a
5 permanent aqueous contact between measuring and reference
electrode, whereby contact is ensured by discharging the
internal solution from the reference electrode directly onto a
measuring (ion-sensitive) membrane and protecting the reference
junction of the reference electrode with water wet porous
10 material, such as sintered glass. It is advantageously applied
to oil-water mixtures under high pressure and/or temperature.

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